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METRIC DATA CONVERSION TABLE

Imperial units to Metric (SI) units

Quantity	*Imperial unit*	*SI equivalent*	
		Accurate	*Rough approximation*
Length	inch	0·0254 m	4 in=10 cm
	foot	0·3048 m	10 ft=3 m
	yard	0·9144 m	10 yds=9 m
	mile	1·6093 km	10 miles=16 km
Area	sq. inch	645·16 mm^2 (sq. millimetres)	
	sq. foot	0·0929 m^2	100 sq. ft=9·3 m^2
	sq. yard	0·836 m^2	100 sq. yd=84 m^2
	sq. mile	2·58999 km^2	10 sq. miles=26 km^2
	acre	0·40469 ha (hectare)	10 acres=4 ha
		4046·9 m^2	1 acre=4000 m^2
Volume	cu. inch	$1·6387 \times 10^{-5}$ m^3	1 cu. in=16 cm^3
	cu. foot	0·0283 m^3	1 cu. ft=28 litres
			1000 cu.ft=28 m^3
	UK gallon	0·004546 m^3	1 UK gal=4·5 litres
			1000 UK gal=4·5 m^3
Mass	ounce	0·0284 kg	1 oz=28 gm
	pound	0·4536 kg	10 lb=4·5 kg
Pressure	pound per sq. inch	6894·8 N/m^2 (newtons per sq. metre)	1 lb/sq. in=7000 N/m^2
			10 lb/sq. in=7 N/cm^2
Density	pound per cu. foot	16·018 kg/m^3	1 lb/cu. ft=16 kg/m^3
Temperature	degree Fahrenheit (°F)	0·555 degree Celsius (°C)	
Temperature scale	t°F	=5/9(t−32)°C (e.g. 70°F=21·1°C 80°F=26·7°C 90°F=32·2°C)	
Power	horsepower	0·7457 kw	10 hp=7·5 kw
Force	pound force	4·4482N	10 lbf=44·5N

Metric (SI) units to Imperial units

Quantity	*SI unit*	*Imperial equivalent*	
		Accurate	*Rough approximation*
Length	centimetre (cm)	0·394 in	10 cm=4 in
	metre (m)	3·281 ft	10 m=33 ft
		1·094 yds	
	kilometre (km)	0·621 miles	100 km=62 miles
Area	square metre (m^2)	10·764 sq. ft	10 m^2=12 sq. yds
	hectare (10000 m^2)	2·471 acres	1 ha=2·5 acres
			=12 000 sq. yds
	square kilometre (km^2)	0·386 sq. miles	100 km^2=40 sq. miles
Volume	cu. metre (m^3)	35·315 cu. ft	1 m^3=35 cu. ft
			1 m^3=1·3 cu. yds
	litre (l)	0·22 UK gal	100 litres=3·5 cu.ft
			=22 UK gal
Mass	kilogramme (kg)	2·205 lb	10 kg=22 lb
	gramme (g)	0·035 oz	100 g=3·5 oz
Pressure	newtons per sq. metre (N/m^2)	$1·4504 \times 10^{-4}$ lb/sq. in	1 N/m^2=1·5 x 10^{-4} lb/in^2 or 16/sq. in
Density	kilogramme per cu. metre (kg/m^3)	0·062 lb/cu. ft	100 kg/m^3=6 lb/cu. ft
	gramme per cu.cm (g/cm^3)	0·036 lb/cu. in	30 g/cm^3=6 lb/cu. ft
Temperature	degree Celsius (°C)	1·8° Fahrenheit (°F)	
Temperature scale	t°C	=9/5(t+32)°F (e.g. 20°C=68°F 30°C=86°F 40°C=104°F)	
Power	kilowatts	1·341 hp	1 kw=1·3 hp
Force	newton	0·22481 lbf	1N=0·22 lbf